

8-19-89
12.3.8 v.5

SEED050
ASH GROVE CEMENT
JOB PLAN

D.E. Neustel
Westinghouse
Engineering
Service
08-11-89

Manpower:

- 2 Westinghouse
- 3 electricians
- 2 waste handlers
- 4 riggers

Equipment:

- rigger: mobile crane
- crew truck with forklift
- 2 - semi-tractor/trailer rigs

waste handler: 1 - semi-tractor/trailer rigs

electricians: crew/equipment truck

Day 1 -- Friday August 18, 1989 ---- Start 7:00 AM - End 7:00 PM

1. Finish Mill 1 & 2 (two(2)-1000 KVA Replacement Transformers serials
PAL 3846-0101/02)
 - 1.1 open/remove/lock/tag 4160v breakers - two total
 - 1.2 install temporary grounds on LV and HV
 - 1.3 remove substation enclosure fencing
 - 1.4 set up temporary lighting/generator(s)
 - 1.5 drain PCB transformers
 - 1.6 electrically and mechanically disconnect the PCB transformers
 - a. burn and grind off existing transformer base anchors
 - b. disassemble the HV air terminal chambers/move cables
 - c. record PCB transformer Tap Changer Position
 - 1.7 move out & load the east PCB transformer
 - 1.8 move out & load the west PCB transformer
 - 1.9 manifest generated wastes
 - 1.10 set in place replacement west transformer
 - 1.11 set in place replacement east transformer
 - 1.12 re-install substation enclosure fencing
 - 1.13 electrically and mechanically reconnect the replacement transformers
 - a. drill and bolt HV and LV flanges
 - b. install transformer tank ground
 - c. install transformer base anchors
 - d. reassemble HV air terminal chambers/cables
 - e. check Tap Changer Position to agree with removed units
 - f. bring tank pressure to +2.5 psi with dry Nitrogen
 - 1.14 perform megger test
 - 1.15 remove grounds/tags/locks and install 4160v breakers
 - 1.16 energize replacement transformers
 - 1.17 check rotation
 - 1.18 remove temporary lighting/generators

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2. Clinker Silo (one(1)-750KVA Transformer serial PAL 3845-0101)

NOTE: Do as much of the following work on August 18, 1989, to keep subcontractor personnel productive. Uncompleted to be performed August 19, 1989 in conjunction with the Group 2 Silo transformer changeout.

- 2.1 open/remove/lock/tag 4160v breaker - one total
- 2.2 install temporary grounds on LV and HV
- 2.3 set up temporary lighting/generator(s)
- 2.4 drain PCB transformer
- 2.5 electrically and mechanically disconnect the PCB transformer
 - a. disassemble the HV air terminal chambers/move cables
 - b. record PCB transformer Tap Changer Position
- 2.6 move out & load the PCB transformer
- 2.7 manifest generated wastes
- 2.8 set in place replacement transformer
- 2.9 electrically and mechanically reconnect the replacement transformer
 - a. drill and bolt HV and LV flanges
 - b. install transformer tank ground
 - c. reassemble HV air terminal chambers/cables
 - d. check Tap Changer Position to agree with removed unit
 - e. bring tank pressure to +2.5 psi with dry Nitrogen
- 2.10 perform megger test
- 2.11 remove grounds/tags/locks and install 4160v breaker
- 2.12 energize replacement transformer
- 2.13 check rotation
- 2.14 remove temporary lighting/generator(s)

Day 2 -- Saturday, August 19, 1989 ---- Start 7:00 AM - End 7:00 PM

NOTE: Perform any unfinished 2.1 through 2.14 items.

3. Group 2 Silo (one(1)-750KVA Transformer serial PAL 3845-0102)

- 3.1 open/remove/lock/tag 4160v breaker - one total
- 3.2 install temporary grounds on LV and HV
- 3.3 set temporary lighting/generator(s)
- 3.4 drain PCB transformer
- 3.5 electrically and mechanically disconnect the PCB transformer
 - a. disassemble the HV air terminal chambers/move cables
 - b. record PCB transformer Tap Changer Position
 - c. remove existing fan conduit/pull wiring back to breaker panel
- 3.6 move out & load the PCB transformer
- 3.7 manifest generated wastes
- 3.8 set in place replacement transformer
- 3.9 electrically and mechanically reconnect the replacement transformer
 - a. drill and bolt HV and LV flanges
 - b. install transformer tank ground
 - c. reassemble HV air terminal chambers/cables
 - d. check Tap Changer Position to agree with removed unit

- e. install transformer Oil Temperature Indicator
- f. bring tank pressure to +2.5 psi with dry Nitrogen
- 3.10 perform megger test
- 3.11 remove grounds/tags/locks and install 4160v breaker
- 3.12 energize replacement transformer
- 3.13 check rotation
- 3.14 remove temporary lighting/generator(s)

Contractor Listing:

Rigger: Shaughnessy and Co.
 221 30th NW
 Auburn, Wa. 98002
 (206) 852-1110
 Dick Mattheis

Waste Handlers: Aptus, Inc. (wholly owned Westinghouse subsidiary)
 P.O. Box 935
 Coffeyville, Kansas 67337
 1-800-292-2558
 Jeanie Martin

Electricians: Seven Sisters
 P.O. Box 719
 Sedro Woolley, Wa. 98284
 (206) 856-0842
 Ted Dance
 Gary Ford (Job site foreman)

Westinghouse Manifest Number: SEE9021

NOTE: If more than one manifest is written, add -A, -B, etc. to the above number. This number is to be placed above the Aptus number appearing in the manifest form's document number block.

Additional Equipment/Materials from Westinghouse shop:

1. Bale of 3M type 156 absorbent pads (partial)
2. Roll of 6 mil plastic sheeting (partial)
3. 8 each LV Terminal Adapters with hardware
4. Replacement Temperature Indicator for Serial Pal 3834-0102
5. Drop and String Lights
6. Shop Vacuum Cleaner
7. Megger - 1000 VDC
8. TTR
9. Nitrogen bottle (small) and regulator/hose